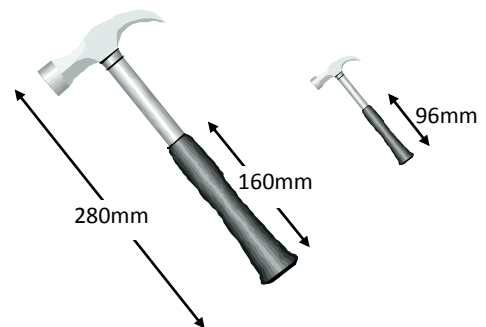
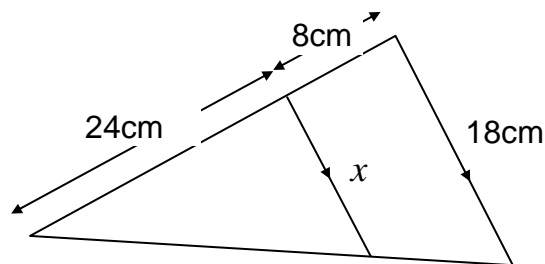


# Homework 10 – Similarity

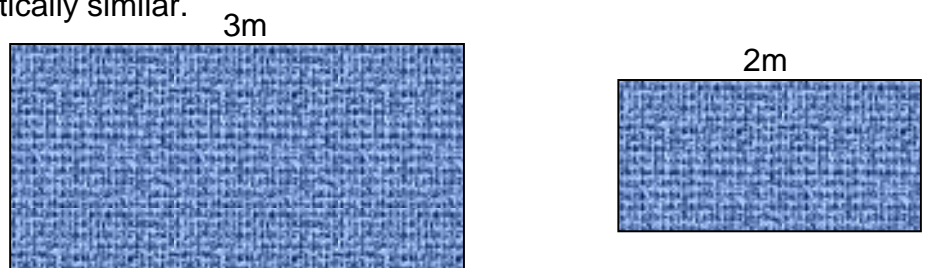
- The two hammers shown are mathematically similar. Calculate the length of the smaller hammer.



- Calculate the length of the side  $x$  in the diagram below.

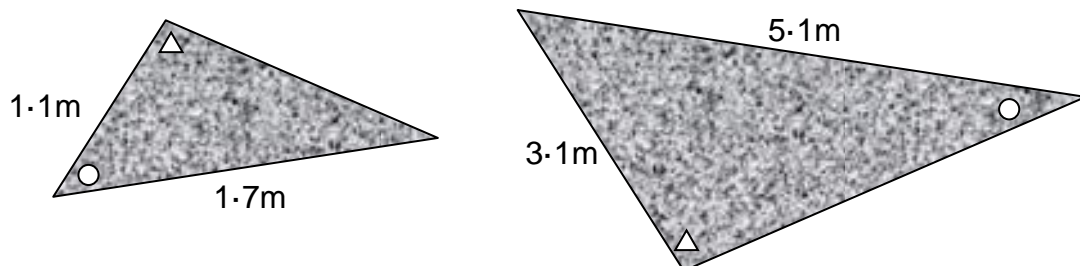


- These two rugs are mathematically similar.



The area of the larger one is  $4.5\text{m}^2$ . What is the area of the smaller one?

- I have two triangular plots in my garden which I have had turfed. The diagrams below show plans of both areas. Equal angles are marked with the same shape.



The cost depends on the area being turfed. It cost £16.75 to buy turf for the smaller area. How much did it cost for the larger one if the triangles are mathematically similar?

- These two perfume bottles are mathematically similar. The cost depends on the volume of perfume in them. The larger bottle costs £62. Find the cost of the smaller bottle correct to the nearest penny.

